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# INTERNATIONAL SEARCH REPORT

/EP 03/12095

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B32B15/00 B32B18/00 C25D15/02 F01D5/00 C23C4/02 F01D5/28

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 B32B F01D C25D C23C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

#### EPO-Internal

1-4,6,7, 9,11-16
1–16
1-4,6,7, 9,11-16
1-4,6,7, 9,11-16

Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filling date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the International filling date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family
Date of the actual completion of the international search  30 January 2004	Date of mailing of the international search report  13/02/2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,  Fax: (+31–70) 340–3016	Authorized officer  Schweissguth, M

### INTERNATIONAL SEARCH REPORT

EP 03/12095

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			· 
Category °	Citation of document, with indication, where appropriate, of the relevan	r passages		Relevant to claim No.
A	US 6 440 499 B1 (COSACK THOMAS ET 27 August 2002 (2002-08-27) the whole document	AL)		1-16
A	US 5 894 053 A (FRIED REINHARD) 13 April 1999 (1999-04-13) the whole document			1-16
Α .	US 5 906 895 A (TAKAHASHI MASASHI 25 May 1999 (1999-05-25) the whole document	ET AL)		1-16
Α .	EP 0 443 877 A (BAJ LTD) 28 August 1991 (1991-08-28) the whole document	-		1-16
Α	EP 0 783 043 A (GEN ELECTRIC) 9 July 1997 (1997-07-09) the whole document		-	1–16
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## INTERNATIONAL SEARCH REPORT

				1 03/12033
Patent document cited in search report	Publication date		Patent family member(s)	Publication date
EP 1050663	A 08-11-2000	US EP JP TW US	6468669 B1 1050663 A2 2001012207 A 534927 B 2002168537 A1	22-10-2002 08-11-2000 16-01-2001 01-06-2003 14-11-2002
US 2002168537	A1 14-11-2002	US EP JP TW	6468669 B1 1050663 A2 2001012207 A 534927 B	22-10-2002 08-11-2000 16-01-2001 01-06-2003
US 2002076571	A1 20-06-2002	NONE		
EP 0315122	A 10-05-1989	DE DE EP JP US	3737361 A1 3884340 D1 0315122 A2 1152233 A 5080981 A	24-05-1989 28-10-1993 10-05-1989 14-06-1989 14-01-1992
US 6440499	B1 27-08-2002	DE WO DE EP ES JP	19807636 C1 9942633 A1 59901188 D1 1060282 A1 2175956 T3 2002504628 T	18-11-1999 26-08-1999 16-05-2002 20-12-2000 16-11-2002 12-02-2002
US 5894053	A 13-04-1999	DE AT CA CN CZ DE EP JP PL RU	19545025 A1 211185 T 2188614 A1 1160088 A 9603468 A3 59608498 D1 0776985 A1 9176818 A 317298 A1 182552 B1 2209256 C2	05-06-1997 15-01-2002 03-06-1997 24-09-1997 13-08-1997 31-01-2002 04-06-1997 08-07-1997 09-06-1997 31-01-2002 27-07-2003
US 5906895	A 25-05-1999	JP CN DE GB	10088368 A 1178204 A ,B 19741223 A1 2317400 A ,B	02-04-1998
EP 0443877	A 28-08-1991	GB CA DE DE EP ES JP US	2241506 A 2036904 A1 69100853 D1 69100853 T2 0443877 A1 2047373 T3 3304104 B2 4218698 A 5076897 A	04-09-1991 24-08-1991 10-02-1994 21-04-1994 28-08-1991 16-02-1994 22-07-2002 10-08-1992 31-12-1991
EP 0783043	A 09-07-1997	US DE DE EP JP	5683825 A 69607449 D1 69607449 T2 0783043 A1 9279364 A	04-11-1997 04-05-2000 26-10-2000 09-07-1997 28-10-1997

EP 03/12095